

PARTICLE MEASUREMENT TECHNOLOGY CO.

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ALASKAN COPPER
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PARTICLE DISTRIBUTION REPORT

SAMPLE DESCRIPTION: PICKLING ACID NUMBER OF SAMPLES: 1

INSTRUMENT: HIAC/ROYCO 4100 w/G2000 SAMPLER SENSOR: 345 BCL

METHOD EMPLOYED BY INSTRUMENT: LIGHT SCATTERING PRINCIPLE

SIZE RANGE: 1 to 250 MICROMETERS TEST VOLUME: 100 MILLILITERS

CARRIER FLUID: Filtered water prepared by multiple pass filtration of pre-filtered RO system water through 0.45 and 0.2 micron filters. Residual particle count verified at less than 0.05% of cumulative particle counts.

TEST PROCEDURE: The test sample was prepared by dispensing 0.5 grams of each sample in 50ml volume of carrier fluid. The sample was sonicated for one minute, in an ultrasonic bath, to break up any agglomerates and remove any bubbles in the sample. A magnetic stir bar was used to stir the sample and keep the particles suspended in the carrier fluid. Stirring was continuous throughout all tests.

The data summary shows the total number of particles counted and the number of particles at the stated sizes for each prepared sample. The distribution percentage of each size range is calculated against the total number of particles counted for each sample.

Questions concerning this report and data should be directed to Mr. Martin L. Grossman, Particle Measurement Technology Company. Thank you.

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PARTICLE DISTRIBUTION SUMMARY

SAMPLE: PICKLING ACID

AVERAGE PARTICLE COUNT PER 100 MILLILITERS

PARTICLE SIZE RANGE (MICRONS)	AVERAGE PARTICLE COUNT PER 100 MILLILITERS	POPULATION DISTRIBUTION
1 - 2um	289,768	37.87%
3 - 10um	4,875	1.65%
10 - 15um	898	0.30%
15 - 20um	313	0.11%
20 - 25um	143	0.05%
OVER 25um	75	0.03%
AVERAGE TOTAL	296,063	100.00%

End of report. Raw data follows.

ULTRA-FILTERED WATER

#820346

AKC-0014384

